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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/801,734	03/09/2001	Genryou Umitsuki	04853.0060	5988
22852	7590 03/21/2003			
FINNEGAN	, HENDERSON, FAR	EXAMINER		
DUNNER LLP 1300 I STREET, NW			KATCHEVES, KONSTANTINA T	
WASHINGT	WASHINGTON, DC 20006		ART UNIT	PAPER NUMBER
			1636 DATE MAILED: 03/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	- LA Pro N				
	Application No.	Applicant(s)			
Office Action Summary	09/801,734	UMITSUKI ET AL.			
and the second summary	Examiner	Art Unit			
The MAILING DATE of this communication a	Konstantina Katcheves	1636			
Period for Reply	ppears on the cover sneet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status					
1) Responsive to communication(s) filed on 06	December 2002 .				
2a)☐ This action is FINAL . 2b)⊠ T	his action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7)⊠ Claim(s) <u>8 and 9</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority document					
2. Certified copies of the priority document					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	30				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informat	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

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Claims 1-9 are pending in the present application. This Office Action is in response to

Paper No.10, filed 6 December 2002.

Response to Amendment

Claims 1-7 stand rejected under 35 U.S.C. 103(a) as being unpatentable over either

Kauppinen et al. (US Patent No. 5,994,113) or Umitsuki (EP 0 967 286) in view of Murakami et

al. (EP 0 427 385) for the reasons of record set forth in the Office Action mailed 11 September

2002.

Response to Arguments

Claims 1-7 stand rejected under 35 U.S.C. 103(a) as being unpatentable over either

Kauppinen et al. (US Patent No. 5,994,113) or Umitsuki (EP 0 967 286) in view of Murakami et

al. (EP 0 427 385). Applicant's arguments filed 6 December 2002 have been fully considered but

they are not persuasive.

Applicant has argued that Kaupinnen and Umitsuki disclose a single peptidase gene and

that Kaupinnen provides no motivation to combine the references because Kaupinnen teaches

away from the present invention. Applicant asserts that Kaupinnen specifically teaches only a

single component enzyme in order to prevent bitterness and does not suggest using both

peptidase and proteases.

In response to applicant's argument that there is no suggestion to combine the references,

the examiner recognizes that obviousness can only be established by combining or modifying the

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teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Kaupinnen does indeed provide sufficient motivation to use more than a single enzyme. On column 2, lines 34-36 states: "In general products, useful for producing protein hydrolysates without a bitter taste, comprise a *mixture* of peptidase and aminopeptidase activities [emphasis added]." Therefore, this teaching in Kaupinnen does provide one of ordinary skill in the art sufficient motivation to provide both types of enzyme hydrolases because protein hydrolases are commonly used in food products to perform enzymatic hydrolysis of vegetable, yeast or animal proteins. The hydrolysis of these proteins results in a product useful as a food additive and or enhanced flavor properties.

Applicant also argues that Murakami does not teach an expression vectors comprising a protease. Applicant should note that Murakami is cited for at least two reasons. First, Murakami does indeed teach the full-length protease including promoter and terminator sequences. Second, Murakami teaches that vectors comprising at least the promoter and terminator sequences can be used to express genes of interest in a suitable yeast host such as *A. sojae*, *A. oryzae*, and *A. tamarii*. Therefore, one of ordinary skill in the art could express proteases, peptidases or aminopeptidases such as those disclosed using the promoter and terminator sequences in a yeast host and reasonably expect success.

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Allowable Subject Matter

Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Konstantina Katcheves whose telephone number is (703) 305-1999. The examiner can normally be reached on Monday through Friday 7:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Remy Yucel, Ph.D. can be reached on (703) 305-1998. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 305-3014 for regular communications and (703) 305-7939 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3388.

Konstantina Katcheves March 10, 2003

REMY YUCEL, PH.D
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600